

WHAT IS CLAIMED IS:

1. A method for generating a route plan comprising:
receiving routing options for a tenant having a plurality of physical locations;
presenting a plurality of predefined gateways;
5 receiving selections indicating one or more of the gateways; and
generating a route plan based on the routing options and the selected
gateways, the route plan supporting routing of telephone calls from managed devices
of the tenant.
- 10 2. The method of Claim 1, wherein the route plan comprises a plurality of
route groups, a plurality of route lists each comprising at least one of the route groups,
and a plurality of route patterns each indicating routing of a matching number to a
selected one of the route groups and route lists.
- 15 3. The method of Claim 1, wherein the routing options comprise
selections chosen from the group of local call fallback, toll bypass fallback, long
distance call fallback, and international call fallback.
- 20 4. The method of Claim 1, further comprising:
for each of the physical locations, receiving location information, the location
information comprising at least one area code and digit dialing requirements; and
basing the route plan on the location information.
- 25 5. The method of Claim 4, wherein the digit dialing requirements are a
selected one of ten-digit dialing, seven-digit dialing, and metro dialing.
6. The method of Claim 1, further comprising accessing a network
configuration database to identify the gateways.

7. The method of Claim 1, further comprising:

for each of the selected gateways, receiving gateway information, the gateway information comprising a carrier connection type and a location indicating a selected one of the physical locations; and

5 basing the route plan on the gateway information.

8. The method of Claim 7, wherein the carrier connection type for the gateway information of each of the gateways is a selected one of local exchange carrier, inter-exchange carrier, and private branch exchange.

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9. The method of Claim 8, further comprising, for each of the gateways, if the carrier connection type is a private branch exchange, receiving an indication whether to discard an access code for calls sent to the private branch exchange.

10. An apparatus for generating a route plan comprising:
a memory storing network configuration data, the network configuration data describing a plurality of gateways;
a user interface operable to present routing options for a tenant having a
5 plurality of physical locations, to receive selected ones of the routing options, to present a plurality of predefined gateways, and to receive selections indicating one or more of the gateways; and
a route generation module operable to generate a route plan based on the selected routing options and the selected gateways, the route plan supporting routing
10 of telephone calls from managed devices of the tenant.

11. The apparatus of Claim 10, wherein the route plan comprises a plurality of route groups, a plurality of route lists each comprising at least one of the route groups, and a plurality of route patterns each indicating routing of a matching
15 number to a selected one of the route groups and route lists.

12. The apparatus of Claim 10, wherein the routing options comprise local call fallback, toll bypass fallback, long distance call fallback, and international call fallback.

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13. The apparatus of Claim 10, wherein the user interface is further operable to receive location information for each of the physical locations, the location information comprising at least one area code and digit dialing requirements, and wherein the route generation module is further operable to base the route plan on
25 the location information.

14. The apparatus of Claim 13, wherein the digit dialing requirements are a selected one of ten-digit dialing, seven-digit dialing, and metro dialing.

30 15. The apparatus of Claim 10, further operable to access a network configuration database to identify the gateways.

16. The apparatus of Claim 10, further operable, for each of the selected gateways, to receive gateway information, the gateway information comprising a carrier connection type and a location indicating a selected one of the physical
5 locations and to base the route plan on the gateway information.

17. The apparatus of Claim 16, wherein the carrier connection type for the gateway information of each of the gateways is a selected one of local exchange carrier, inter-exchange carrier, and private branch exchange.
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18. The apparatus of Claim 17, further operable, for each of the gateways, if the carrier connection type is a private branch exchange, to receive an indication whether to discard an access code for calls sent to the private branch exchange.

19. Logic for generating a route plan, the logic encoded in media and operable when executed to:

receive routing options for a tenant having a plurality of physical locations;

present a plurality of predefined gateways;

5 receive selections indicating one or more of the gateways; and

generate a route plan based on the routing options and the selected gateways, the route plan supporting routing of telephone calls from managed devices of the tenant.

10 20. The logic of Claim 19, wherein the route plan comprises a plurality of route groups, a plurality of route lists each comprising at least one of the route groups, and a plurality of route patterns each indicating routing of a matching number to a selected one of the route groups and route lists.

15 21. The logic of Claim 19, wherein the routing options comprise selections chosen from the group of local call fallback, toll bypass fallback, long distance call fallback, and international call fallback.

22. The logic of Claim 19, further operable when executed to:
20 for each of the physical locations, receive location information, the location information comprising at least one area code and digit dialing requirements; and
base the route plan on the location information.

23. The logic of Claim 22, wherein the digit dialing requirements are a
25 selected one of ten-digit dialing, seven-digit dialing, and metro dialing.

24. The logic of Claim 19, further operable to access a network configuration database to identify the gateways.

25. The logic of Claim 19, further operable when executed to:

for each of the selected gateways, receive gateway information, the gateway information comprising a carrier connection type and a location indicating a selected one of the physical locations; and

5 base the route plan on the gateway information.

26. The logic of Claim 25, wherein the carrier connection type for the gateway information of each of the gateways is a selected one of local exchange carrier, inter-exchange carrier, and private branch exchange.

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27. The logic of Claim 26, further operable, for each of the gateways, if the carrier connection type is a private branch exchange, to receive an indication whether to discard an access code for calls sent to the private branch exchange.

28. An apparatus for generating a route plan comprising:
means for receiving routing options for a tenant having a plurality of physical
locations;
means for presenting a plurality of predefined gateways;
5 means for receiving selections indicating one or more of the gateways; and
means for generating a route plan based on the routing options and the
selected gateways, the route plan supporting routing of telephone calls from managed
devices of the tenant.

29. A method for generating a route plan comprising:

presenting a plurality of routing options for a tenant having a plurality of physical locations, wherein the routing options comprise local call fallback, toll bypass fallback, long distance call fallback, international call fallback, and equal
5 access suppression;

receiving first selections indicating one or more of the routing options;

for each of the physical locations, receiving location information, the location information comprising at least one area code and digit dialing requirements, wherein the digit dialing requirements are a selected one of ten-digit dialing, seven-digit
10 dialing, and metro dialing;

accessing a network configuration database to identify a plurality of predefined gateways;

presenting the predefined gateways;

receiving second selections indicating one or more of the predefined gateways;

15 for each of the selected predefined gateways, receiving gateway information, the gateway information comprising a carrier connection type and a location indicating a selected one of the physical locations, wherein the carrier connection type for the gateway information of each of the predefined gateways is a selected one of local exchange carrier, inter-exchange carrier, and private branch exchange; and

20 generating an external route plan based on the routing options, the location information, and the gateway information, the external route plan supporting the routing of telephone calls from within the tenant to locations external to the tenant;

wherein the route plan comprises a plurality of route groups, a plurality of route lists each comprising at least one of the route groups, and a plurality of route
25 patterns each indicating routing of a matching number to a selected one of the route groups and route lists.